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- - 29. An electrical device for use with a circuit which has an exhaustible power source and a light source which is powered by the said power source, said device including at least one MMI signal switch which is not a serial part of an energy transfer circuit from the power source to the light source, and a microchip in communication with the signal switch and the power source and wherein the microchip controls a power switch for connecting the power source to, and disconnecting the power source from, the light source, and means for providing at least one function selected from the following:

(a) a find-in-the-dark function by activating an indicator;

(b) a power adjusting function, in response to at least one signal from the signal switch;

and

(c) a delayed shut off function wherein the said electrical device has only two connections to the said circuit, namely a first connection to the power source and a second connection to the light source.

30. An electrical device according to claim 29 wherein the said means additionally provides at least one function selected from the following:

(c) an oscillating or light flashing function;

(d) an intermittent code sequence function; and

(e) a determination of the charge remaining in the power source function and giving an indication thereof.

31. An electrical device according to claim 29 wherein the said means provides a delayed shut off function in combination with at least one of the said functions (a) and (b).

32. An electrical device according to claim 30 wherein the said means provides a delayed shut off function in combination with at least one of the said functions (c), (d) and (e).

33. The electrical device of claim 29 wherein the microchip recognizes that a number of successive activation/deactivation signals received from the signal switch corresponds to a specific said at least one function.

34. The electrical device of claim 29 wherein the said signal switch includes more than one input means with each input means indicating a different command function recognisable by the microchip.

35. The electrical device of claim 29 wherein the signal switch is a multi-mode switch which, in each mode, controls a different function.

36. The electrical device of claim 29 wherein the function of the signal switch is dependent on the time period of the switch actuation, or the time period between successive actuations of the signal switch or a combination thereof.

37. The electrical device of claim 29 wherein the signal switch is selected from:

- (a) a momentary contact type switch; and
- (b) a latching type switch.

38. The electrical device of claim 29 wherein the microchip recognizes that the receipt of different voltages from the signal switch corresponds to different command functions.

39. The electrical device of claim 29 which includes an energy storage device and wherein:

when the said power switch is closed, energy from the storage device is used to power the microchip and, when the power switch is open, energy from the power source is used to power the microchip.

40. The electrical device according to claim 39 wherein energy from the power source is stored in the energy storage device when the power switch is open.

41. The electrical device according to claim 40 wherein the energy storage device is a capacitor.

42. The electrical device according to claim 39 wherein the energy storage device is a battery.

43. The electrical device according to claim 40 wherein the microchip monitors the quantity of energy in the energy storage device and causes the power switch to open when the said quantity of energy falls below a predetermined level.

44. The electrical device according to claim 40 wherein the microchip causes the power switch to open and close at regular time intervals to cause regular recharging of the energy storage device.

45. An electrical device for use with an exhaustible power source and a load which is powered by the said power source, said device including at least one MMI signal switch which is not a serial part of an energy transfer circuit from the power source to the load, a microchip which is in communication with the signal switch and the power source, an energy storage device, and a power switch for controlling energy flow from the power source to the load, and wherein when the power switch is closed, energy from the storage device is used to power the microchip and, when the power switch is open, energy from the power source is used to power the microchip.

46. The electrical device according to claim 45 wherein the energy from the power source is stored in the energy storage device when the power switch is open.

47. The electrical device according to claim 46 wherein the energy storage device is a capacitor.

48. The electrical device according to claim 45 wherein the energy storage device is a battery.

49. The electrical device according to claim 45 wherein the microchip monitors the quantity of energy in the energy storage device and causes the power switch to open when the said quantity of energy falls below a predetermined level.

50. The electrical device according to claim 44 wherein the microchip includes means for providing a delayed shut off function in response to at least an on signal from the said signal switch.